Report No: TSD/12 dated Apr-06

TITLE: CARE & PRECAUTIONS DURING WELDING

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- 1. Introduction
- 2. Salient powders to be looked into during welding

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1.0 INTRODUCTION:

It is an established fact that the overall success of any welding procedure depends on human factor. The precautions to be taken towards any unforeseen incidents and care to prevent the same are essential before, during or after welding.

2.0 SALIENTS PONTS TO BE LOOKED INTO DURING WELDING:

2.1 Before start of Welding -

- 1. Material identification
- 2. Chemical analysis of the plate to be welded
- 3. Surface condition & cleanliness of the adjoining plates
- 4. Base metal discontinuities if any
- 5. Flatness of the plate
- 6. Joint geometry
- 7. Edge preparation
- 8. Joint dimensions
- 9. Tacking
- 10. Backing plate
- 11. Welding process to be followed
- 12. Position of welding
- 13. Any special attention on welding consumable
- 14. Welding parameter selection
- 15. Type of shielding gas selection
- 16. Special set up, if any

2.2 At the time of Welding -

- 1. Filler metal identification
- 2. Pre-heat temperature
- 3. Inter-pass temperature
- 4. Root pass checking
- 5. Cleaning between the pass
- 6. In-process NDT
- 7. Conformance to WPS

2.3 After completion of Welding -

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- 1. Method of cleaning for inspection
- 2. Acceptance criteria
- 3. PWHT requirements
- 4. NDT requirements
- 5. Destructive testing requirements
- 6. Repair, if required
- 7. Post-repair inspection & checking

